

Rethinking Our Homes, Rethinking Our Communities



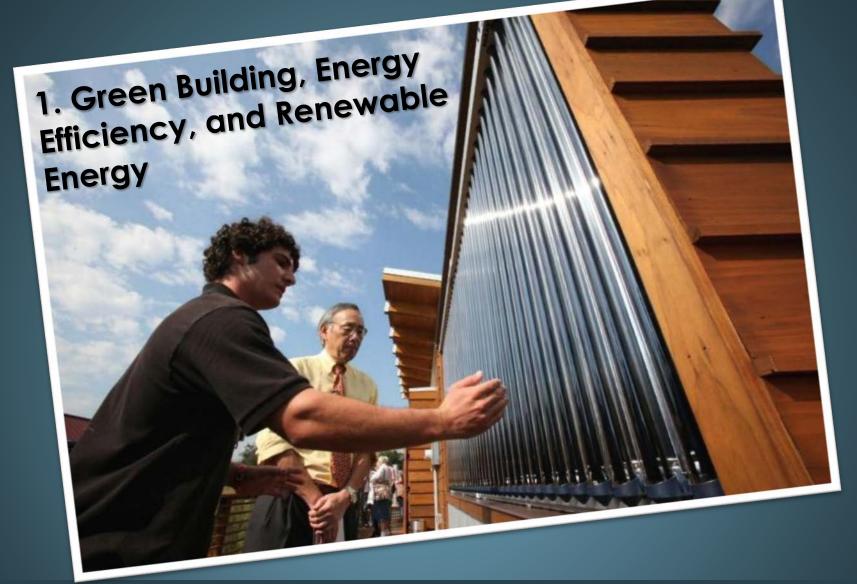
Sustainability



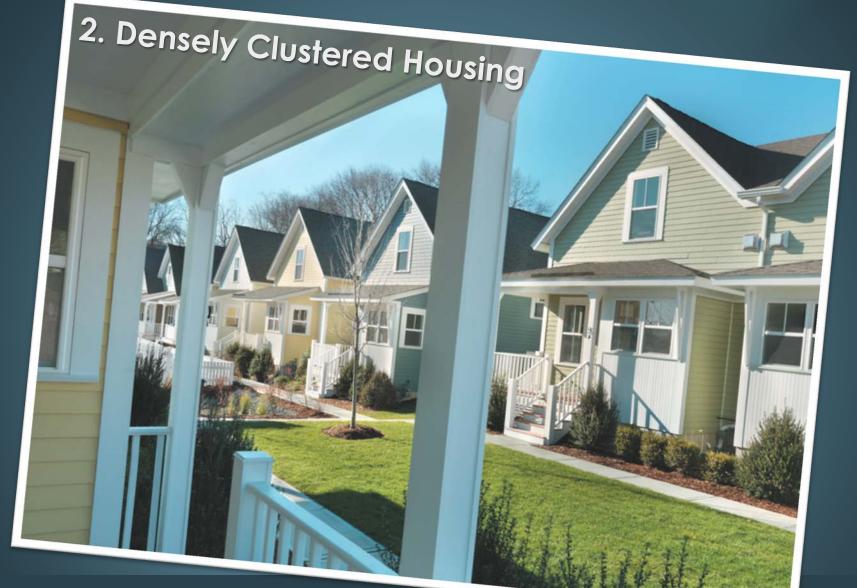


A Model That Works











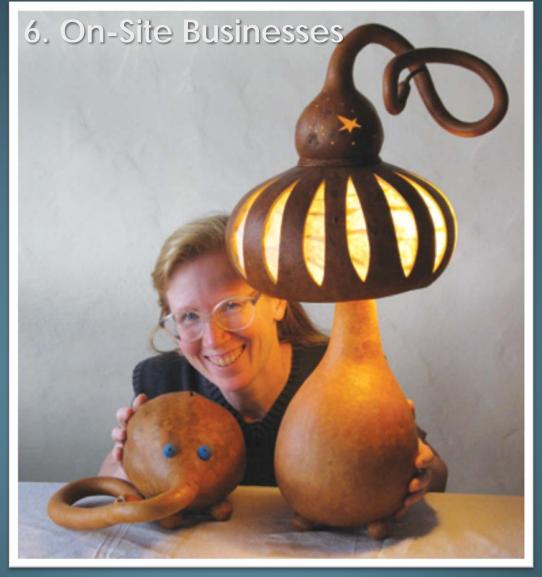




























Success Story #1



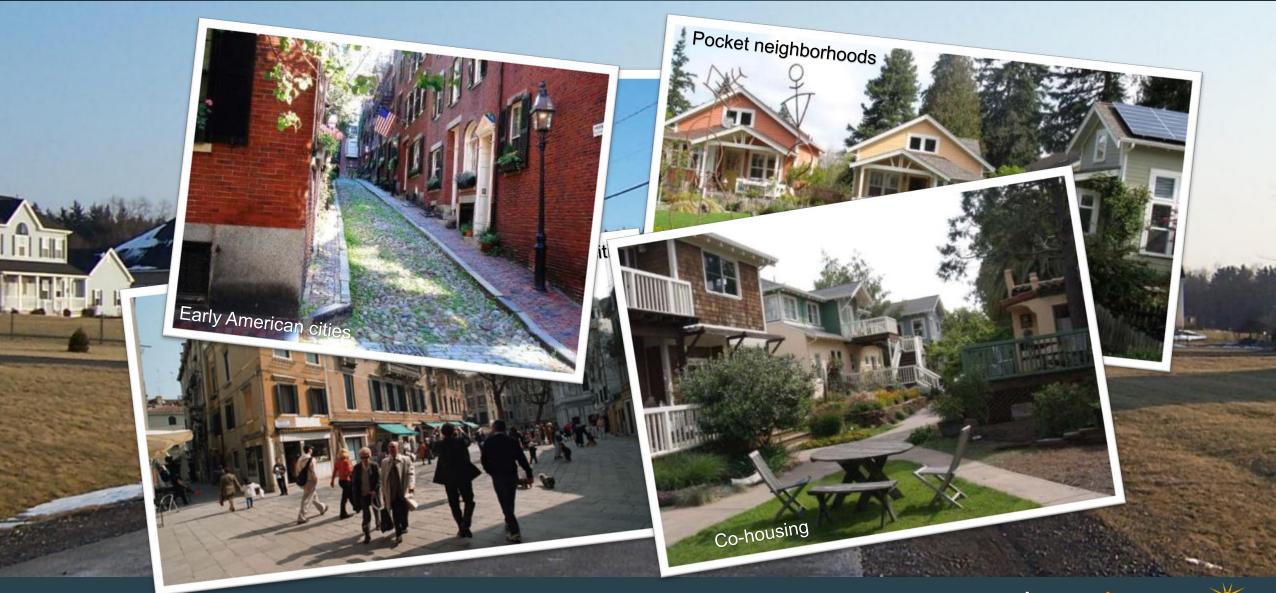


Success Story #3





Pedestrian Neighborhood Zoning





PNZ Objectives 3. Promote closer social ties 2. Preserve open space

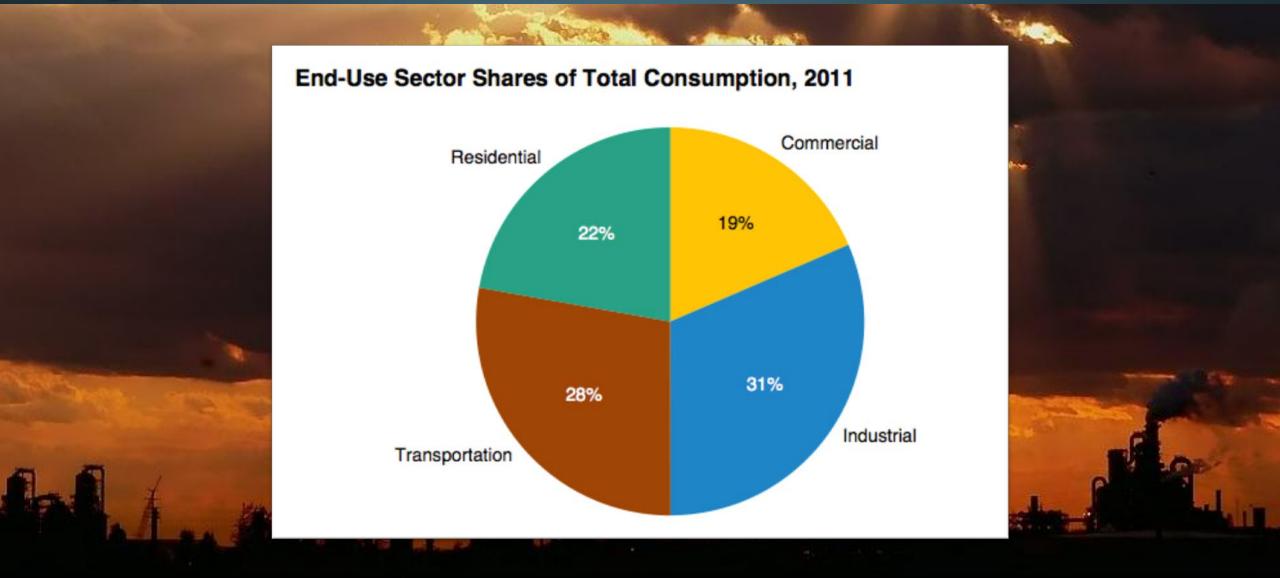
1. Increase density to support transit and walkability



PNZ Key Strategies



Energy Codes





Zoning Codes that Impact Energy Use

- Mixed Use Neighborhoods at appropriate density allow walking and biking to destinations
- Reduced length and frequency of vehicle trips
- Allowing shared walls dramatically reduces heat/cooling loss



Energy Codes

Code impacts - Building envelope:

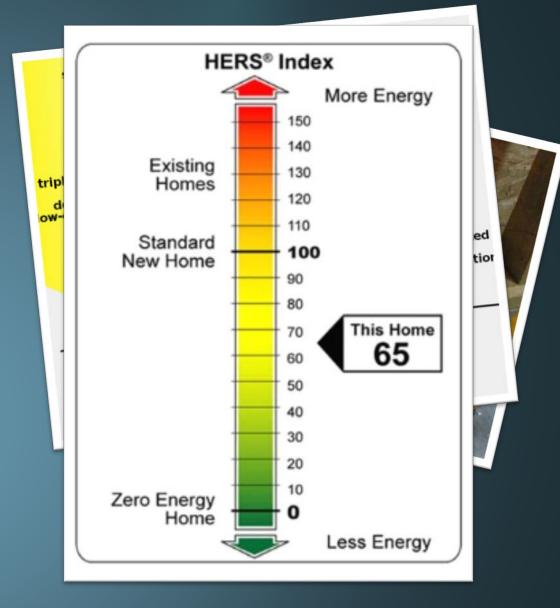
- Building sealing
- Casement windows
- Increased R-values
- Avoiding thermal bridging

Code impacts - Building mechanics:

- Air Quality & Ventilation Needs Increase with envelope sealing – heat exchange captures heat/cooling from exhaust air
- Increased Efficiency of Mechanical Equipment decreases electrical demand
- Efficient plumbing fixtures reduce water use and energy for hot water

Outcome:

Overall energy efficiency standard



Energy Codes



CHRONICLEONLINE

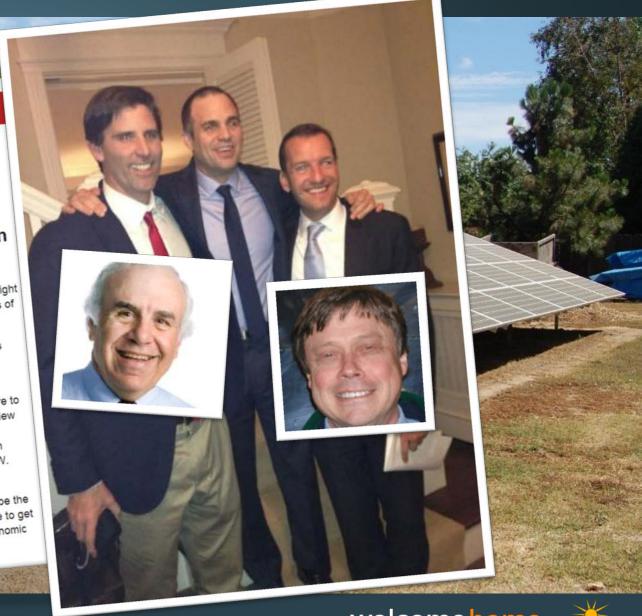
New York's fossil fuel: Gone with the wind ... water and sun

Converting all of the state's energy sources from natural gas, coal and fossil fuel to wind, water and sunlight by 2030 will stabilize electricity prices, reduce power demand by about 37 percent and create thousands of By Blaine Friedlander permanent jobs, suggests a new report in the journal Energy Policy (March 12, 2013).

"Can New York state rid itself of fossil fuel in the near future? The answer is yes. The economics of this plan make sense; now it is up to the political sphere," says Anthony Ingraffea, Cornell professor of

The report, "Examining the Feasibility of Converting New York State's All-Purpose Energy Infrastructure to One Using Wind, Water and Sunlight," is the first-ever, comprehensive plan for an individual state -- New York -- that provides 100 percent of its all-purpose energy from wind, water and sunlight. Further, it calculates the number of energy devices, land and ocean areas, jobs and policies needed for such an infrastructure. Mark Z. Jacobson of Stanford University is the lead author, and Ingraffea and Robert W. Howarth, Cornell professor of ecology and evolutionary biology, are co-authors.

"New York state has the opportunity to lead the nation and the world toward what we all know must be the energy path of the 21st century," says Howarth. "The only questions have been, how long will it take to get to renewables, and how much will they cost. Here we show it can be done quickly, and at a net economic benefit to the state."





It's not too late at all. You just don't yet know what you are capable of.

Mahatma Gandhi



Opportunity for Free Technical Assistance

Winner will receive approximately \$5,000 in in-kind services, including:

- A visit to the winner's property by team planners and architects
- A guided tour of the Community That Works projects in Tompkins County
- A half-day design charette for the owner and his/her development team
- A written report summarizing the charette, including a conceptual design plan
 for the property suitable for use at a sketch plan phase of project review
- A page featuring the project on the website





Project Team

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